

VIP Proj Team: SO I (2601)

Section VYH | Fall 2026

Credits 1 credit hour

Instructor Patrick Kastner, PhD

Co-Instructors Dr. İlker Karadağ, Dr. Benson Ku, Dr. Shalaila Haas, Dr. Juan Carlos Martínez Mori

Course Description

VIP–SMUR develops *surrogate models* (typically ML-based) and software that deliver *real-time* performance feedback for urban and architectural decision-making. We integrate with industry tools (Rhino, Revit), GIS, and browser-based applications so actionable and informed decisions can be made during early design.

Course Learning Outcomes

By the end of the semester, students will:

1. Produce documented technical contributions that integrate into team software and models.
2. Maintain high-quality individual documentation enabling *reproducibility* and *reflection*.
3. Collaborate professionally by planning, communicating, reviewing, and giving and receiving feedback.
4. (Returning students) Mentor peers and coordinate subteam milestones.

Required Course Materials

TBD

Grading Policy

| Category | Weight |
|--------------------------------------|-------------|
| Documentation (Notebook, Wiki, Code) | 33% |
| Peer Evaluation | 33% |
| Instructor Evaluation | 34% |
| Total | 100% |

Course Policies

Attendance Policy

Instructors determine their own attendance and participation policies. Students are responsible for all material covered in class and for any announcements made in class or via Canvas. Review the [Institute Attendance Policy](#) for expectations and restrictions.

Academic Honesty / Academic Integrity

Georgia Tech aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards. All students are required to abide by the [Georgia Tech Honor Code](#).

Any student suspected of cheating or plagiarism on a quiz, exam, or assignment will be reported to the Office of Student Integrity, who will investigate the incident and identify the appropriate penalty for violations.

Student Conduct

At Georgia Tech, we believe that it is important to strive for an atmosphere of mutual respect, acknowledgement, and responsibility between faculty members and the student body. The [Student-Faculty Expectations Agreement](#) articulates the basic expectations for our academic community. In the end, simple respect for knowledge, hard work, and cordial interactions will help build the environment we seek.

Accommodations for Students with Disabilities

If you are a student with learning needs that require special accommodation, contact the [Office of Disability Services](#) (404-894-2563) as soon as possible to make an appointment to discuss your special needs and to obtain an accommodations letter. Please also e-mail me as soon as possible in order to set up a time to discuss your learning needs.